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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/017,107	12/13/2001	John F. McEntee	10004452-1 6455		
7590 04/18/2005		EXAMINER			
Gordon Stewart			NGHIEM, MICHAEL P		
Agilent Techno P.O. Box 7599	logies		ART UNIT	PAPER NUMBER	
Loveland, CO 80537-0599			2863		
		DATE MAILED: 04/18/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

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PTOL-326 (R		ction Summar	, Pa	nt of Paper No./Mail D	ate 20050412			
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	ı	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	O-152)			
* See the attached detailed Office action for a list of the certified copies not received.								
	application from the International Bureau (PCT Rule 17.2(a)).							
	2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage							
	1. Certified copies of the priority document			on No				
a)[☐ All b)☐ Some * c)☐ None of:	la lacere te						
_	Acknowledgment is made of a claim for foreign	priority und	er 35 U.S.C. § 119(a))-(d) or (f).				
	ınder 35 U.S.C. § 119							
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11)[7]	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	•			• •			
	Applicant may not request that any objection to the	•			ED 1 101/4\			
10)	The drawing(s) filed on is/are: a)☐ acc							
-	The specification is objected to by the Examine		7	_				
Applicati	on Papers							
بارح	are subject to restriction and/o	5.55001110	9411 OTHORIC					
7)⊠ 8)□	7)⊠ Claim(s) <u>26-29 and 42</u> is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement.							
	6)⊠ Claim(s) <u>23-25 and 32-40</u> is/are rejected. ,							
	Claim(s) <u>1-5,8,30,31 and 41</u> is/are allowed.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	4)⊠ Claim(s) <u>1-5,8 and 23-42</u> is/are pending in the application.							
Dispositi	on of Claims							
	·	-n parte Que	iyio, 1900 O.D. 11, 40					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
/_	This action is FINAL. 2b)⊠ This action is non-final.							
1)⊠	Responsive to communication(s) filed on <u>03 N</u> This action is FINAL 2b. This action is FINAL							
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	reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	g date of this com	munication, even if timely filed	l, may reduce any				
- Exter after - If the - If NO - Failu	nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repleperiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute	ly within the statut will apply and will e, cause the appli	ory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	s will be considered time the mailing date of this c D (35 U.S.C. § 133).				
	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION.	Y IS SET TO	EXPIRE 3 MONTH	S) FROM				
Period fo			oover sheet war the c	orrespondence de	idi ess			
	The MAILING DATE of this communication app	Michael P.		2863	Idroop			
Office Action Summary		Examiner		Art Unit				
	Office Action Comments	10/017,107		MCENTEE ET AL	.			
		Applicatio	11 140.	Applicant(s)				

DETAILED ACTION

The Amendment filed on November 3, 2004 has been acknowledged.

Claim Objections

- 1. Claims 23, 29, 34, and 42 are objected to because of the following informalities:
- claim 23, "a reservoir" (line 2) should be -- said reservoir --.
- claim 23, "a fluid supply vessel" (line 2) the said fluid supply vessel –.
- claim 29, "a result of a reading" is not recited in claim 27 as being obtained by the method of claim 27.
- claim 34, "a fluid supply vessel" (lines 1-2) should be said fluid supply vessel --.
- claim 42, after "level" (line 8) should delete ".".

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 23-25 and 32-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kobayashi et al. (US 6,733,114) in view of Hayes et al. (US 5,658,802).

Regarding claims 23, 32-38, and 40, Kobayashi et al. discloses a method and system (Fig. 2) for replenishing a pulse jet reservoir (7) comprising:

- providing a printing system (Fig. 2) comprising a pulse-jet printhead (6), a pressure gauge (23), a reservoir (7), and a fluid supply vessel (9), wherein said reservoir has an inlet line (inlet line of 10) and an outlet line (outlet to 35), said inlet line capped by a valve (26) for connection to a fluid supply vessel (9) and said outlet line in fluid communication with said printhead (Fig. 2), wherein said pressure gauge comprises a manometer (23), and wherein said fluid supply vessel is connected to said reservoir via a supply vessel line (10) connected to said valve (Fig. 2);
 - connecting said fluid supply vessel to said reservoir (Fig. 2);
 - opening said valve (opening 26), and
- feeding print medium from said fluid supply vessel to said reservoir (Fig. 2), wherein said print medium is fed under pressure to said reservoir during use of said pulse-jet nozzle (during printing process even though the nozzle may be pausing, Fig. 2).

Regarding claim 39, Kobayashi et al. discloses that gauge pressure is monitored and pressure compensation is applied to maintain said pressure within a desired range (column 16, lines 42-51).

However, Kobayashi et al. does not disclose that said print medium comprises a biopolymer or precursor thereof, regarding claim 23, and a method of producing a biopolymer array, regarding claims 24 and 25.

Nevertheless, Hayes et al. discloses that said print medium comprises a biopolymer or precursor thereof (Abstract, lines 1-4) for the purpose of producing a biopolymer array (Abstract, line 3).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Kobayashi et al. with a print medium comprising a biopolymer as disclosed by Hayes et al. for the purpose of producing a biopolymer array.

Allowable Subject Matter

- 3. Claims 26-29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Claim 42 would be allowable if rewritten or amended to overcome the objection(s) set forth in this Office action.

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5. Claims 1-5, 8, 30, 31, and 41 are allowed.

Reasons For Allowance

6. The combination or method as claimed wherein a printing system comprising lines configured for individually connecting a printhead and manometer to a fluid source (claims 1, 30, 31, 41, 42) or contacting a biopolymeric array having a polymeric ligand that specifically binds to said analyte, with a sample suspected of comprising said analyte under conditions sufficient for binding of said analyte to a biopolymeric ligand on said array to occur (claim 26) is not disclosed, suggested, or made obvious by the prior art of record.

Response to Arguments

7. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Contact Information

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P Nghiem whose telephone number is (571)

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272-2277. The examiner can normally be reached on M-H.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

MICHAEL NGHIEM PRIMARY EXAMINER

Michael Nghiem

April 12, 2005